

ADDITIONS AND MODIFICATIONS TO THE SEPTEMBER 5, 1991 RCRA PART B PERMIT APPLICATION


UNITED TECHNOLOGIES CORPORATION
PRATT & WHITNEY
MANUFACTURING DIVISION
400 MAIN STREET
EAST HARTFORD, CONNECTICUT 06108

CTD 990672081

Handwritten:
Date: 9/16/92
By: [Signature]
RMS #2354

REVISION DATE:
SEPTEMBER 16, 1992

PREPARED BY:


LOUREIRO ENGINEERING ASSOCIATES, P.C.
CONSULTING ENGINEERS
PLAINVILLE, CT

COMM. NO. 68ET217



**UNITED
TECHNOLOGIES
PRATT & WHITNEY**

400 Main Street
East Hartford, Connecticut 06108

September 18, 1992

10/10/92
10/10/92
P-18
OFFER

Ms. Lynn M. Clune, Engineer
Waste Engineering & Enforcement Division
Department of Environmental Protection
165 Capitol Avenue
Hartford, CT 06106

Re: RCRA Part B Application submittal for Pratt & Whitney
East Hartford CTD990672081

Dear Ms. Clune:

Enclosed is a submittal of recent revisions to the RCRA Part B Application for the Pratt & Whitney facility located at 400 Main Street, East Hartford, Connecticut. This submittal includes revisions to the Facility Description in Volume I-Section B and the Contingency Plan in Volume II-Section F. These revisions include minor diagrammatic changes, name changes, and emergency equipment location changes.

Thank you very much for your cooperation. If you have any questions concerning this submittal, please call Paul Guilmette at 557-0900.

Sincerely,

R. C. Weiss
Director, Facilities & Services

RCW/PGG/saw

cc: John Podgurski, USEPA,
Timothy R.E. Keeney, Commissioner-Connecticut DEP
Richard J. Barlow, Chief-Bureau of Waste Management
David A. Nash, Director-Waste Engineering and Enforcement
George Dews, Waste Engineering and Enforcement
David Satler, Waste Engineering and Enforcement

SEP 24 92

ADDITIONS AND MODIFICATIONS
TO THE SEPTEMBER 5, 1991
RCRA PART B PERMIT APPLICATION

FOR:

UNITED TECHNOLOGIES CORPORATION
PRATT & WHITNEY
400 MAIN STREET
EAST HARTFORD, CT
EPA ID NO CTD990672081

SEPTEMBER 16, 1992

Prepared By:

LOUREIRO ENGINEERING ASSOCIATES
100 Northwest Drive
Plainville, CT 06062

COMM. NO. 68ET217

INSTRUCTIONS FOR INCORPORATING
ADDITIONS AND MODIFICATIONS
TO THE SEPTEMBER 5, 1991
RCRA PART B PERMIT APPLICATION

FOR:

*UNITED TECHNOLOGIES CORPORATION
PRATT & WHITNEY
400 MAIN STREET
EAST HARTFORD, CT
EPA ID NO CTD990672081*

REVISION DATE: SEPTEMBER 16, 1992

<u>ITEM</u>	<u>REMOVE PAGES</u>	<u>ADD/ REPLACE PAGES</u>
Volume I - Section B	Figure B-3	Figure B-3
Volume II - Section D	Figure D-1	Figure D-1
Volume II - Section F	B-7, B-8, D-9	B-7, B-8, B-9, B-10, D-9
Volume II - Section F	Appendix D	Appendix D
	Figure 3	Figure 3
	Figure 4	Figure 4
Volume III - Section H	Figure H-1	Figure H-1
	126, 127 Table H-3	126, 127 Table H-3
	135 Table H-4	135 Table H-4
	140	140
	141 Table H-5	141 Table H-5

**US EPA New England
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Image Target Sheet**

RDMS Document ID # 2354

Facility Name: PRATT & WHITNEY - MAIN STREET

Facility ID#: CTD990672081

Phase Classification: R-1B

Purpose of Target Sheet:

☒ **Oversized** (in Site File) ☐ **Oversized** (in Map Drawer)

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Purpose Below)

Description of Oversized Material, if applicable:

FIGURE B-3: RCRA PART B PERMIT APPLICATION
CONCENTRATED WASTE TREATMENT PLANT - SITE
PLAN

☒ **Map** ☐ **Photograph** ☐ **Other** (Specify Below)

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FIGURE D-1: RCRA PART B PERMIT APPLICATION
CONCENTRATED WASTE TREATMENT PLANT - SITE
PLAN TRAFFIC AND DRAINING

☒ **Map** ☐ **Photograph** ☐ **Other (Specify Below)**

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- A. Where and when the incident occurred.
- B. What medium received the release (air, surface waters, ground).
- C. What chemical or material was involved and quantities spilled.
- D. The time or duration of release.
- E. Extent of injuries or damages to persons or properties.
- F. Emergency action being taken (evacuation, fire suppression, etc.)
- G. Reason for the incident.
- H. Corrective actions in preparation.

In addition to immediate oral notification, the Coordinator shall provide the above information in writing to the person notified in paragraph No. 4.

- (6) Based upon the information provided, the Emergency Coordinator for the East Hartford Facility will determine whether or not the incident is reportable under federal or state regulation and if reportable notify the appropriate agencies listed in paragraph 7, Legal Counsel and Public Relations.

Public Relations	Peg Ford	Ext 5-1296	HM: 203-457-9544
Legal Counsel	Kevin M. Doyle	Ext 5-2846	HM: 203-274-1178

- (7) In the event of a reportable incident, the applicable agencies from the following list will be notified immediately by telephone by the Emergency Coordinator.

<u>Agency</u>	<u>Phone Number</u>
National Response Center	800-424-8802
Department of Environmental Protection Oil and Chemical Spill Section	203-566-3338
East Hartford Local Emergency Planning Committee	203-291-7100 or 9-911
State of Connecticut Emergency Response Commission	203-566-4856
U.S. Coast Guard	203-773-2464
Hartford Hospital	203-524-2525

- (8) The following information shall be provided to the agencies notified in paragraph No. 7 above.

- A. Name and telephone number of the reporter.
- B. Name and address and telephone number of facility.

- C. Time, duration, and type of incident (e.g. oil, chemical, or hazardous waste).
- D. Name and quantity of material(s) involved, to the extent known.
- E. The media or medium to which the release occurred.
- F. Extent of injuries if any,
- G. The possible hazards to human health, or the environment outside the facility.
- H. What corrective action is being taken.

(9) As soon as practical after an incident, a written report documenting the nature of the incident shall be completed by the environmental protection group, reviewed by division counsel and forwarded to the Department of Environmental Protection. The reporting form for this notification may be found at the end of Exhibit A. Depending upon the type of incident, additional written reports may also need to be prepared and submitted to other agencies as outlined in Exhibit A.

(10) Addresses of Emergency Coordinators listed under paragraph No. 2.

William Chudzik	66 Holl Street Manchester, CT 06040 203-649-6007
-----------------	--

Joseph Stramondo	4 Val Court Wolcott, CT 06716 203-879-9866
------------------	--

Timothy Lorette	46 Stanavage Rd. Colchester, CT 06415 203-825-9182
-----------------	--

Richard Ives	26 Old Rt 89 Lebanon, CT 06424 203-423-5298
--------------	---

Jerry Bull	71 Loveland Hill Rd. Apt. 21 Vernon, CT 06066 203-871-1051
------------	---

Harold Owens	56 West Eggleston Street Bloomfield, CT 06002 203-242-6420
--------------	--

Bob Latham	60 Somerset Street Wethersfield, CT 06109 203-529-2472
------------	--

- (11) Fire Department personnel, for the duties and responsibilities described under paragraph No. 2 are listed below. The facility operates under 3 shifts at all times, and one of the shifts will be ready to respond to an emergency at any time, therefore, home addresses and phone numbers are not necessary and are not provided herein.

H. J. Perrault
Fire Protection Engineer

W. E. Barton
Fire Prot. Equip. Administrator

G. J. Fellows
Fire Training Administrator

Supvr., Protective Services - 4
(Fire Lieutenants)

Berube
Giansanti
Tripp
Zatkowski

Maint. Tech., Perm. Fire Equip. - 4

Berriault
Butler
Karpinski
Owens

Emerg. Equip. Operators - 5

Bristol (905.6)
DeMaio
Kajda
McFarland
Smith

Apparatus Driver -7

Battistoni (905.5)
Cauley
Damon
Downey
Gillus
LeBouthillier
St. Amant
Plant Protection Officers - 8
Boone (905.8)
Breiner
Giambattista
Isner
King
Looney
Manner
Terpiloski

Maint. Portable Fire
Equip./Firefighter - 3

Honan (905.3)
Liappes
Noble

- Remove objects which have not been contacted.
- Soak up spill with soda ash and remove for treatment or storage.
- After removing soda ash, rinse spill area with water collecting rinsewater for disposal.

c. Cyanides

CAUTION: Contact with acids will cause cyanide salts or their solutions to generate hydrogen cyanide gas which is extremely toxic and flammable.

Hydrogen cyanide gas can cause instantaneous loss of consciousness and death.

- (1) Eliminate source of spill if possible, without risk.
- (2) Dike spill area with soda ash and cover manholes and storm drains in the area.
- (3) Remove incompatible materials.
- (4) Remove objects in spill area that have not yet been contacted.
- (5) Soak up spilled material with soda ash and remove for treatment. If solution is too strong for in-plant treatment, place in cyanide storage tank. Be sure all contacted material is removed for treatment.

d. Wax/Solvent, Oil/Solvent, Solvents, Paints

- (1) Eliminate source of spill if possible, without risk.
- (2) Remove sources of ignition.
- (3) Dike spill area with sawdust and dike or cover all manholes and storm drains in the area.
- (4) Remove incompatible materials.
- (5) Remove objects in spill area that have not been contacted.
- (6) Soak up spilled material with sawdust. Remove for off-site disposal.

e. Container Spills and Leaks

Hazardous waste containers are stored in the Centralized Waste Storage and Transfer Facility (CWS&TF) and in six of the eight (8) less than 90 storage areas identified in Section A.5. The area designated, CWTP-3, consists of three underground storage tanks. No containers are stored in this location.

APPENDIX D

TYPICAL EMERGENCY EQUIPMENT INVENTORY

1. Concentrated Waste Treatment Plant - Main Building (CWTP-1)

A) SPILL CONTROL EQUIPMENT

- 1) Shovels and brooms
- 2) Soda ash, absorbent material.

B) COMMUNICATION EQUIPMENT

- 1) Telephones
- 2) PA System

C) FIRE EXTINGUISHING EQUIPMENT

- 1) 15 lb. carbon dioxide, first floor
- 2) 2.5 gal. water, first floor
- 3) 6 lb. ABC, second floor

D) PERSONNEL SAFETY EQUIPMENT "In Lockers"

- 1) Full protective clothing, face shields, boots, gloves
- 2) Scott Air Paks - two (2) on first floor; 30-minute duration
- 3) Emergency shower
 - a) Platform
 - b) Outside office door
 - c) Basement
 - d) Laboratory
- 5) Eye Wash Station
 - a) Inside east door
 - b) Basement
 - c) Laboratory

2. Concentrated Waste Treatment Plant - Barrel Storage Building (CWTP-2)

A) SPILL CONTROL EQUIPMENT

- 1) Shovels and brooms
- 2) Sawdust, absorbent material and sodium bicarbonate

B) COMMUNICATION EQUIPMENT

- 1) Telephone
- 2) PA System Speaker

C) FIRE EXTINGUISHING EQUIPMENT

- 1) 30 lb. ABC, inside
- 2) 6 lb. ABC, outside

D) PERSONNEL SAFETY EQUIPMENT

- 1) Full protective clothing, face shield, boots, gloves
- 2) Shower - northeast corner
- 3) Eye wash station - northeast corner

3. Concentrated Waste Treatment Plant - Transporter Storage Pad (CWTP-4)

A) SPILL CONTROL EQUIPMENT

- 1) Obtain from CWTP-1 or CWTP-5

B) FIRE EXTINGUISHING EQUIPMENT

- 1) 6 lb. ABC, outside

C) PERSONNEL SAFETY EQUIPMENT

- 1) Obtain PPE from CWTP-1 or CWTP-5

4. Concentrated Waste Treatment Plant - Storage Building A (CWTP-5)

A) SPILL CONTROL EQUIPMENT

- 1) Shovels and brooms
- 2) Sawdust, absorbent material and sodium bicarbonate

B) COMMUNICATION EQUIPMENT

- 1) Telephone
- 2) PA System speaker

C) FIRE EXTINGUISHING EQUIPMENT

- 1) 30 lb. ABC, outside
- 2) 6 lb. ABC, inside

D) PERSONNEL SAFETY EQUIPMENT

- 1) Full protective clothing, face shields, boots, gloves
- 2) Eye wash station - inside on west wall
- 3) Emergency shower
- 4) Respirators in lockers

E) EMERGENCY RESPONSE SPILL CONTROL VEHICLE

- 1) Shovels, brooms and absorbent pads
- 2) Barrels
- 3) Sawdust, sodium bicarbonate and/or absorbent material
- 4) Protective clothing, face shields, boots and gloves and scott air packs

5. Concentrated Waste Treatment Plant - Storage Building B (CWTP-6)

A) SPILL CONTROL EQUIPMENT

- 1) Shovels and brooms
- 2) Sawdust, absorbent material and sodium bicarbonate

B) COMMUNICATION EQUIPMENT

- 1) Telephone
- 2) PA System Speaker

C) FIRE EXTINGUISHING EQUIPMENT

- 1) 30 lb. ABC, outside
- 2) 6 lb. ABC, inside

D) PERSONNEL SAFETY EQUIPMENT

- 1) Full protective clothing, face shields, boots, gloves
- 2) Eye wash station - inside on north wall
- 3) Emergency Shower

6. Concentrated Waste Treatment Plant - Planned Centralized Waste Storage and Transfer Facility (CWS&TF)

A) SPILL CONTROL EQUIPMENT

- 1) Shovels and brooms
- 2) Barrels
- 3) Sawdust, absorbent material and sodium bicarbonate

B) COMMUNICATION EQUIPMENT

- 1) Telephones
- 2) PA system

C) FIRE EXTINGUISHING EQUIPMENT

- 1) Automatic sprinkler system
- 2) Automatic foam system
- 3) 30 lb. ABC's
- 4) 6 lb. ABC's

D) PERSONNEL SAFETY EQUIPMENT

- 1) Full protective clothing, face shields, boots, aprons, gloves
- 2) Emergency showers and eye wash stations

7. Pre-Treatment Plan

A) SPILL CONTROL EQUIPMENT

- 1) Shovels and brooms
- 2) Barrels
- 3) Pump, hose, absorbent material

B) COMMUNICATION EQUIPMENT

- 1) Telephone

C) FIRE EXTINGUISHING EQUIPMENT

- 1) Sprinkler System
- 2) 15 lb. carbon dioxide extinguisher

D) PERSONNEL SAFETY EQUIPMENT

- 1) Face shield, boots, gloves and protective clothing
- 2) Shower and eye wash stations
 - a) Next to sink on south side
 - b) East wall
 - c) Near barrel pump in storage room
- 3) Scott Air Packs

8. Colt Street Treatment Plant

A) SPILL CONTROL EQUIPMENT

- 1) Shovels buckets and brooms
- 2) Pump, hose, and wet-vac
- 3) Sodium bicarbonate
- 4) Oil absorbent material
- 5) Decontamination Equipment

B) COMMUNICATION EQUIPMENT

- 1) Telephone

C) FIRE EXTINGUISHING EQUIPMENT

- 1) Fire hydrant and hoses
- 2) Carbon dioxide extinguisher
- 3) Dry chemical extinguisher
- 4) 2-1/2 gallon water extinguishers

D) PERSONNEL SAFETY EQUIPMENT

- 1) Protective Clothing - Face shield, goggles, boots, gloves
- 2) Shower and eye wash station
 - a) Main level - outside office
 - b) Lower level
- 3) Scott Air Paks

9. E.H. Mobile Van - Rescue 15

<u>Quantity</u>	<u>Content</u>
1	D.O.T. Guide Book
1	Emergency Location Book
1	Aircraft Rescue Book
1	Grid Maps (Set)
1	Kit (Emerg. Rescue See Page #4)
1	Light (Hand)
1	Protector (Ear)
1	Pair Crash Gloves
3	Lights (Flood)
2	Nomex Crash Gear
1	Bag of Saw Dust
2	Fiber Board Drums
1	Spool, Yellow Electric Cord
1	Light (Carpenter)
1	Hand Light
2	Scott Air Pak 4.5
2	Scott Cylinders (Spare 2.2)
1	Water Vac, @ Wand
1	Pump (Submersible)
1	Rope (50' 1/2")
1	Rope (200' 1/2")
1	Rope (80' 3/4")
1	Rope (50' 3/4")
1	Rope (100' 3/4")
1	Shovel Long Handle
1	Command Post Flag
1	Ext. Cord, Grey for Water Vac
4	125 ft. Extension Cords
1	15 ft. Extension Cords
1	Generator (4500 W. Honda EX4500S)
2	Lights (Emergency Flood)
1	RS-10 Extrication Tool Kit

E.H. Mobile Van - Rescue 15 (Cont'd)

<u>Quantity</u>	<u>Content</u>
1	Bag of Saw Dust
1	Partner K-1200 Rescue Saw
1	NIOSH Haz-Mat Hand Book
2	Goggles (Safety)
1	Haz/Mat Box, Plugs Wood & Rubber
1	Salvage Cover
2	Rescue Belts
5	Pair Rubber Gloves
1	Plastic Tarp
1	Barrel Wrench
1	Bolt Cutter (#1)
1	Bolt Cutter (#3)
1	Bolt Cutter (#5)
1	Come Along
1	Come Along Handle (spare)
3	Steel Cables
1	Junction Box (Electrical)
1	Tool Box (See This Page)

TOOL BOX

2	Blades (Hacksaw)
2	Chisel (Cold)
1	Cutter (Sheet Metal)
1	Hacksaw
1	Suction Tile Puller
1	Hook (Bale)
1	Knife (Linoleum)
1	Pipe Cutter (Small)
1	Plier (Vise Grip)
1	Channel Lock Plier
1	Screwdriver (6")
1	Screwdriver (Phillips #1)
1	Screwdriver (Phillips #2)
1	Terminal Puller
1	Wrench (1/2 x 9/16)
1	Key Hole Saw with 3 Blades
1	Acetylene Wrench
1	Spark Plug Wrench
1	Center Punch (Spring Loaded)
2	12' Chains with Hook and Eyes

RESCUE TOOL KIT

1	Chisel (Cold)
1	Cutter (Sheet Metal)
1	Cutter (Wire)

E.H. Mobile Van - Rescue 15 (Cont'd)

<u>Quantity</u>	<u>Content</u>
2	Hack Saw Blades
1	Hacksaw
1	Hammer (2#)
1	Mallet
1	Plier (Channel Lock)
1	Plier (Standard)
1	Plier (Water Pump)
1	Screwdriver (6")
1	Sling (Rope with Hook)
	Plugs Assorted
1	Handlight
1	Emergency Locator Book (Glove Compartment)
1	Set of Binoculars (Glove Compartment)
2	Remco Hazmat Shovels
1	Broom
1	Hazardous Material Kit (RED)
1	600 ft. 3/8 in. Poly Rope on Reel
1	3 ft. Iron Pipe, Rope Reel Handle
1	5 Gallon Pail of Soda Ash
1	5 Gallon Pail of Saw Dust
2	Dust Pans
2	Hand Brooms
2	Air Packs (One Hour, on Front Wall)
4	Stantions
1	Length of Poly Rope (Yellow)
1	Honda EX-3500 Portable Gen
1	125 Ft. Cord
1	Line Cord to Power R-14
1	Roll, Plastic in Box
1	C. Post Flag (Orange)
2	Cardboard Drums
4	Bags of Saw Dust
1	5 Gallon Yellow Emergency Response Pac
1	Chlorine B Kit
2	Spare Hour Air Bottles in Racks
1	Absorbent Pad (Roll)
2	Pair Pioneer Neopreme Gloves
2	Sarnex Disposable Suits
1	Green P.V.C. Vinyl Suit

YELLOW HAZMAT TOOL BOX

7	White Suits
3	Yellow Suits
3	Pair Rubber Gloves (Lt. Green)
4	Pair Dark Green Rubberized Gloves

E.H. Mobile Van - Rescue 15 (Cont'd)

<u>Quantity</u>	<u>Content</u>
3	Pair Latex Gloves
2	Rolls Barrier Tape
1	Roll Duct Tape
1	Roll Red Masking Tape
2	Containers of Litmus Paper
1	Shoe Me Megaphone
2	Pair Knee Boots
	Pigs
1	Roll Masking Tape
1	Roll of Duct Tape
1	Box Disposable Gloves
	Yellow Disposable Suits
1	Incident Data Sheet Clip Board
1	Incident Command Board
1	Face Shield
	Plastic Trash Bags
4	Hazmat Radio Sets Clark H-7140
3	Chris Manuals
1	Hazardous Chem Data Book
1	Safety Officers Helmet
1	Fire Protection Guide on Haz-Mat
4	Trell Chem Suits
4	Motorola Hand Portable Radios
1	NIOSH Haz-Mat Hand Book
1	Incident Commander Vest
1	Safety Officers Vest
2	P&W Environmental Officers Vests

DECON MATERIAL IN TRUCKWELL

1	Portable Decon Shower
3	Portable Decon Pools
3	32 Gallon Decon Barrels
5	Containment Pigs
4	Lengths of 3/4 in. GardenHose
1	Hose Manifold (3/4 in. to 1 1/2 in.)
1	Roll of Plastic 4 ft. Wide
1	30 x 50 ft. Decon Plastic Tarp
1	Wooden Handle Decon Brush
1	Roll of Barrier Tape

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Description of Oversized Material, if applicable:

**FIGURE 3: ENVIRONMENTAL COMPLIANCE MANUAL,
CONCENTRATED WASTE TREATMENT PLANT -
EVACUATION ROUTES**

☒ **Map** ☐ **Photograph** ☐ **Other (Specify Below)**

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Description of Oversized Material, if applicable:

**FIGURE 4: ENVIRONMENTAL COMPLIANCE MANUAL,
CONCENTRATED WASTE TREATMENT PLANT - SPILL
CONTROL AND EMERGENCY RESPONSE EQUIPMENT**

☒ **Map** ☐ **Photograph** ☐ **Other (Specify Below)**

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Description of Oversized Material, if applicable:

**FIGURE H-1: CENTRALIZED WASTE STORAGE &
TRANSFER FACILITY CLOSURE PLAN - SAMPLING
LOCATIONS**

☒ **Map** ☐ **Photograph** ☐ **Other (Specify Below)**

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TABLE H-3
CONTAINER STORAGE AREAS
VERIFICATION SAMPLING

Item	Process	Area (Sq. Ft.)	Grid Interval (Ft)	No. of Grid Nodes	No. of Grid Samples	No. of Sump Samples	Total No. of Samples
Centralized Waste Storage and Transfer Facility:							
a)	Truck Pad (Typ. of 4)	1,814	12	24	18	1	19
b)	Fork Lift Ramp	853	8	33	8	2	10
c)	Transporter Unloading Station (Typ. of 4)	71	2	28	3	1	4
d)	Container/Transporter Storage Area (Type A, Typ. of 5)	190	4	28	3	1	4
e)	Container/Transporter Storage Area (Type B, Typ. of 5)	153	3	24	3	1	4
f)	Container/Transporter Storage Area (Type C, Typ. of 6)	264	5	20	3	1	4
g)	Container/Transporter Storage Area (Type D)	225	4	21	3	1	4
h)	Container/Transporter Storage Area (Type E, Typ. of 3)	388	5	24	4	1	5
i)	Staging Area (Type A)	4,960	8	144	50	4	54

TABLE H-3 (Cont'd)
 CONTAINER STORAGE AREAS
 VERIFICATION SAMPLING

Item	Process	Area (Sq. Ft.)	Grid Interval (Ft)	No. of Grid Nodes	No. of Grid Samples	No. of Sump Samples	Total No. of Samples
j)	Staging Area (Type B)	6,880	8	164	69	8	77
k)	Acid Scrubber	120	3	20	3	1	4
l)	General Container	285	5	20	3	1	4

NOTE: The sump samples (judgement sampling) will be collected in addition to the statistically required grid samples. Other judgemental samples will be collected based on an integrity assessment of each of the areas being closed.

TABLE H-4
TANK STORAGE AREAS
VERIFICATION SAMPLING

Item	Process	Area (Sq. Ft.)	Grid Interval (Ft.)	No. of Grid Nodes	No. of Grid Samples	No. of Sump Samples	Total No. of Samples
Centralized Waste Storage and Transfer Facility:							
Tank Storage							
Area (Typical of 16)		321	5	19	3	1	4

NOTE: The sump samples (judgement sampling) will be collected in addition to the statistically required grid samples. Other judgemental samples will be collected based on an integrity assessment of each of the areas being closed.

D. MAXIMUM CLOSURE COST ESTIMATE

The estimated closure cost for the Centralized Waste Storage and Transfer Facility is \$1,635,777 dollars. A breakdown of the closure cost for the CWS&TF is provided in Table 5. All costs assume performance of closure activities by a qualified third-party contractor. The estimates assume that the maximum waste inventory will be present at closure.

The closure cost estimate will be revised whenever a change in the closure plan affects the cost of closure. The closure cost will be adjusted annually as described in 40 CFR 264.14(b).

All costs provided in Table 5 include overhead for conventional type of work (construction, sampling, decontamination, etc.). The additional insurance costs (estimated approximately at 7%) account for the incremental overhead required for work involving hazardous waste.

TABLE H-5
MAXIMUM CLOSURE COST ESTIMATE
CENTRALIZED WASTE STORAGE AND TRANSFER FACILITY

<u>ACTIVITY DESCRIPTION</u>	<u>COST</u>
Initial Sampling (Appendix IX)	
9 areas x 2 samples x \$4,500/ea:	\$ 81,000.00
9 areas x 16 mh x \$60/hr:	\$ 8,640.00
Removal & Disposal of Waste Inventory (1)	
59,400 gal x \$8/gal (non-bulk):	\$ 475,200.00
96,000 gal x \$2/gal (bulk):	\$ 192,000.00
Background Sampling & Analysis	
2 samples x \$1,200/ea:	\$ 2,400.00
16 mh x \$60/hr:	\$ 960.00
Concrete Coring Equip. Rental:	\$ 500.00
Development of CSP list	
60 mh x \$60/hr:	\$ 3,600.00
Development of Health & Safety Plan:	\$ 3,000.00
Dismantle and Disposal of Aboveground Tanks and Ancillary Equipment	
400 mh x \$40/hr:	\$ 16,000.00
Disposal:	\$ 44,000.00
Decontamination of Concrete Containments	
1,200 mh x \$40/hr:	\$ 48,000.00
Equipment Rental:	\$ 3,000.00
Collection & Analysis of Confirmational Samples	
388 samples x \$1,200/ea:	\$ 465,600.00
370 mh x \$60/hr:	\$ 22,200.00
Removal and Disposal of Contaminated Concrete Allowance (40 tons):	\$ 20,000.00
Data Evaluation & Closure Certification	
200 mh x \$60/hr:	\$ <u>12,000.00</u>
Subtotal:	\$1,398,100.00
Insurance (7%):	\$ 97,867.00
Contingency (10%):	\$ <u>139,810.00</u>
Total:	\$1,635,777.00
(Centralized Waste Storage and Transfer Facility)	
mh: manhours	
(1): Assumes maximum inventory present at closure.	